



1635

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

APR 16 2003

TECH CENTER 1600/2906

Applicant: TIMOTHY HLA ET AL)
Serial No.: 09/651,846) Group Art Unit: 1635
Filed: August 31, 2000) Before the Examiner:
For: METHOD FOR REGULATING) Schmidt, M.
ANGIOGENESIS)

GENETIC SEQUENCE SUBMISSION STATEMENT VERIFYING IDENTICAL PAPER
AND COMPUTER READABLE COPY

BOX SEQUENCE
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

I hereby state each computer readable form submitted in this application is the same as the "Sequence Listing" to which it is indicated to relate.

If any there are any additional charges with respect to this Genetic Sequence Submission Statement Verifying Identical Paper and Computer Readable Copy, for Biotechnology Invention Containing Nucleotide and/or Amino Acid Sequence, please charge them to Deposit Account No. 06-1130 maintained by Applicants' attorney.

Respectfully submitted,

CANTOR COLBURN LLP

By: Karen A. LeCuyer
Karen A. LeCuyer
Registration No. 51,928

Date: April 9, 2003
Address: 55 Griffin Road South, Bloomfield, CT 06002
Telephone: (860) 286-2929
Customer No. 23413

Application No.: 09/651,846



**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.
- 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- 7. Other: _____

RECEIVED

APR 16 2003

TECH CENTER 1600/2900

Applicant Must Provide:

- An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support (SIRA)

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE



substitute sequence.ST25.txt
SEQUENCE LISTING

<110> University of Connecticut Health Center
Hla, Timothy
Lee, Meng-Jer
Claffey, Kevin P
Ancellin, Nicholas
Thangada, Shobha

<120> Method for regulating Angiogenesis

<130> UCT-0012

<140> 09/651,846
<141> 2000-08-31

<150> US 60/152,266
<151> 1999-09-02

<160> 10

<170> PatentIn version 3.1

<210> 1
<211> 18
<212> DNA
<213> Homo sapiens

<300>
<301> M.J. Lee, S. Thangada, K.P. Claffey, N. ANcellin, C.H. Liu, M. Kluk, M. Voilpi, R. Sha-fi and T. Hla
<302> Vacular endothelial cell adherens junction assembly and morphogenesis induced by sphingosine-1-phosphate-
<303> Cell
<304> 99
<305> 3
<306> 301-312
<307> 1999-10-29
<309>
<313> (1)..(18)

<400> 1
gacgctggtg ggcccat

RECEIVED

APR 16 2003

TECH CENTER 1600/2900

<210> 2
<211> 18
<212> DNA
<213> Homo sapiens

<400> 2
gctgggtgggc cccatggt

18

18

<210> 3
<211> 18
<212> DNA
<213> Homo sapiens

<400> 3
atggggccca ccagcgtc

18

substitute sequence.ST25.txt

<210> 4	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 4	
tgatccttgg cggggccg	18
<210> 5	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 5	
cgggagggca gttgccat	18
<210> 6	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 6	
atggcaactg ccctcccg	18
<210> 7	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 7	
atccgtcaag cgggggtg	18
<210> 8	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 8	
cgagtacaag ctgccccat	18
<210> 9	
<211> 2753	
<212> DNA	
<213> Homo sapiens	
<300>	
<301> T. Hla and T. Maciag	
<302> An abundant transcript induced in differentiating human endothelial cells	
encodes a polypeptide with structural similarities to G-protein-coupled receptors	
<303> J. Biol. Chem.	
<304> 265	
<305> 16	
<306> 9308-9313	
<307> 1990-06-05	
<308> NM_001400	
<309> 1990-06-05	
<313> (1)..(2753)	

substitute sequence.ST25.txt

<400>	9					
gtcggggca	gcagcaagat	gcgaagcgag	ccgtacagat	cccggctct	ccgaacgcaa	60
cttcgcctg	cttgagcgag	gctgcggttt	ccgaggccct	ctccagccaa	ggaaaagcta	120
cacaaaaagc	ctggatcaact	catcgAACCA	cccctgaAGC	cagtGAAGGC	tctctcgCCT	180
cgcctctag	cgttcgTCTG	gagttagCGCC	accCCGGCTT	cctggggaca	caggGTTGGC	240
accatggggc	ccaccAGCGT	cccGCTGGTC	aaggCCCACC	gcagCTCGGT	ctctgactac	300
gtcaactatg	atATCATCGT	ccggcattac	aactacacgg	gaaagctgaa	tatcagcgcg	360
gacaaggaga	acagcattaa	actgacCTG	gtggTgttca	ttctcatctg	ctgctttatc	420
atcctggaga	acatTTTGT	cttgctgacc	atTTggaaaa	ccaagaaatt	ccaccgacCC	480
atgtactatt	ttattggcaa	tctggccCTC	tcagacCTGT	tggcaggagt	agcctacaca	540
gctaaccTGC	tcttGTCtgg	ggccaccacc	tacaagCTCA	ctccccGCCA	gtggTTCTG	600
cgggaaggga	gtatgtttgt	ggccCTGTCA	gcctccgtgt	tcagtctcct	cgccatcgCC	660
attgagcgct	atATCACAA	gctgaaaatg	aaactCCACA	acgggagcaa	taactTCCGC	720
ctcttcTGC	taatcagcgc	ctgctggTC	atctccCTCA	tcctgggtgg	cctgcctatc	780
atgggctgga	actgcATCAG	tgcGCTGTCC	agctgCTCCA	ccgtGCTGCC	gctctaccac	840
aagcactata	tcctttCTG	caccacggc	ttcactCTG	ttctgctCTC	catcgTCATT	900
ctgtactgca	gaatctactc	cttggTCAGG	actcggagcc	gccgcctgac	gttccgcaag	960
aacatttcca	aggccAGCCG	cagctCTGAG	aagtCGCTGG	cgctgCTCAA	gaccgttaatt	1020
atcgtcCTGA	gcgtCTTCAT	cgcctgCTGG	gcaccgCTCT	tcatcCTGCT	cctgCTGGAT	1080
gtgggCTGCA	aggTGAAGAC	ctgtgacATC	ctttcAGAG	cgaggACTT	cctgggttTA	1140
gctgtgCTCA	actccggcac	caacCCATC	atttacACTC	tgaccaACAA	ggagatgcgt	1200
cgggcTTCA	tccggatcat	gtcctgCTGC	aagtGCCGA	gcggagACTC	tgctggcaaa	1260
ttcaagcgac	ccatcatcgc	cgGCATGGAA	ttcagCCGCA	gcaaATCGGA	caattcCTCC	1320
cacccccaga	aagacgaagg	ggacaACCCA	gagaccatta	tgtttCTGG	aaacgtcaac	1380
tcttCTTCC	agaactggaa	gctgtccacc	caccggAAAGC	gcttttact	tggTCGCTGG	1440
ccacCCCAgT	gtttggaaaa	aaatctCTGG	gcttcGACTG	ctGCCAGGGA	ggagCTGCTG	1500
caagCCAGAG	ggagGAAGGG	ggagaATAcG	aacAGCCTGG	tggTGTcGGG	tgttggTGGG	1560
tagagttAGT	tcctgtGAAC	aatgcACTGG	gaaggGTGGA	gatcaggTCC	cgGCCTGGAA	1620
tatatATTCT	acCCCCCTGG	agCTTTGATT	ttgcactGAG	ccaaAGGTCT	agcattgtca	1680
agctccTAAA	gggttcATT	ggccCTCCT	caaAGACTAA	tgtccccatG	tgaaAGCGTC	1740
tcttGTCtG	gagCTTGTAG	gagatgtttt	cttcacttt	agtttcaaac	ccaagtGAGT	1800
gtgtgcactt	ctgcttCTT	aggatGCC	tgtacatccc	acacCCACCC	ctccCTTCCC	1860

substitute sequence.ST25.txt

ttcatacccc	tcctcaacgt	tctttactt	tatactttaa	ctacctgaga	gttattcagag	1920
ctggggttgt	ggaatgatcg	atcatctata	gcaaataaggc	tatgttgagt	acgttaggctg	1980
tggaaagatg	aagatggttt	ggaggtgtaa	aacaatgtcc	ttcgctgagg	ccaaagttc	2040
catgttaagcg	ggatccgttt	tttggattt	ggttgaagtc	actttgattt	ctttaaaaaa	2100
catctttca	atgaaaatgtg	ttaccatttc	atatccattg	aagccgaaat	ctgcataagg	2160
aagcccactt	tatctaaatg	atattagcca	ggatccttgg	tgtcctagga	gaaacagaca	2220
agcaaaacaa	agtgaaaacc	aatggattt	actttgcaa	accaaggggag	attttcttagc	2280
aatgagtct	aacaaatatg	acatccgtct	ttcccacttt	tgttgatgtt	tatttcagaa	2340
tcttgtgtga	ttcatttcaa	gcaacaacat	gttgttattt	gttgtgttaa	aagtactttt	2400
cttgattttt	aatgttattt	gtttcagggaa	gaagtcattt	tatggatttt	tctaaccgt	2460
gttaactttt	ctagaatcca	ccctcttgc	cccttaagca	ttacttttac	tggtagggaa	2520
cggcagaact	tttaagtcca	gctattcatt	agatagtaat	tgaagatatg	tataaatatt	2580
acaaagaata	aaaatatatt	actgtcttt	tagtatgtt	ttcagtgcaa	ttaaaccgag	2640
agatgtcttgc	ttttttaaa	aagaatagta	tttaataggt	ttctgacttt	tgtggatcat	2700
tttgacata	gctttatcaa	ctttaaaca	ttaataaact	gatttttta	aag	2753

<210> 10
<211> 1137
<212> DNA
<213> Homo sapiens

<300>
<301> F. Yamagichi, M. Tokuda, O. Hatase and S. Brenner
<302> Molecular cloning of the novel human G-protein-coupled receptor (GPCR) gene mapped on chromosome 9
<303> Biochem. Biophys. Res. Commun.
<304> 227
<305> 2
<306> 608-614
<307> 1996-10-14
<308> NM_005226
<309> 1996-10-14
<313> (1)..(1137)

<400> 10
atggcaactg ccctcccgcc gcgtctccag ccgggtgcggg ggaacgagac cctgcgggag 60
cattaccagt acgtggggaa gttggcgggc aggctgaagg aggccctccga gggcagcacg 120
ctcaccaccg tgctttctt ggtcatctgc agcttcatcg tcttggagaa cctgatggtt 180
ttgattgcca tctggaaaaa caataaattt cacaaccgca tgtactttt cattggcaac 240
ctggctctct ggcacactgct ggccggcatc gcttacaagg tcaacattct gatgtctggc 300
aagaagacgt tcagcctgtc tcccacggtc tggttcctca gggagggcag tatgttcgtg 360
gcccttgggg cgtccacactg cagcttactg gccatcgcca tcgagcggca cttgacaatg 420

substitute sequence.ST25.txt

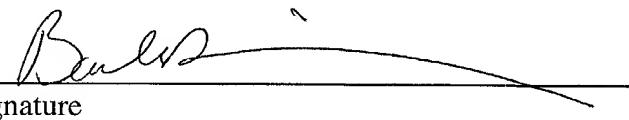
atcaaaatga ggccttacga cgccaacaag aggcaccccg tttcctcct gatggatg	480
tgctggctca ttgccttcac gctggcgcc ctgcccattc tgggctggaa ctgcctgcac	540
aatctccctg actgctctac catcctgccc ctctactcca agaagtacat tgccttctgc	600
atcagcatct tcacggccat cctggtgacc atcgtgatcc tctacgcacg catctacttc	660
ctggtaagt ccagcagccg taaggtggcc aaccacaaca actcggagcg gtccatggca	720
ctgctgcgga ccgtgggtat tggttgagc gtgttcatcg cctgctggtc cccactttc	780
atccctttcc tcattgtatgt ggctgcagg gtgcaggcgt gccccatcct cttcaaggct	840
cagtggttca tcgtgttggc tgtgctcaac tccgccatga acccggtcat ctacacgctg	900
gccagcaagg agatgcggcg ggccttcttc cgtctggtct gcaactgcct ggtcagggga	960
cggggggccc gcgcctcacc catccagcct gcgcgcgacc caagcagaag taaatcaagc	1020
agcagcaaca atagcagcca ctctccgaag gtcaaggaag acctgccccca cacagacccc	1080
tcatcctgca tcatggacaa gaacgcagca cttcagaatg ggatcttctg caactga	1137



CERTIFICATE OF MAILING BY FIRST CLASS MAIL (37 CFR 1.8)

I hereby certify that the GENETIC SEQUENCE SUBMISSION (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service, First Class Mail, on the date shown below in an envelope addressed to the Assistant Commissioner for Patents, BOX SEQUENCE, P.O. BOX 2327, Arlington, Virginia, 22202.

April 9, 2003
Date



Signature

Barbara Davidson
Typed or printed name of person signing Certificate